XCIII. *De rariori quadam* Orthoceratitis *Specie, in* Suecia *reperta, tractatus: in literis a* Nicholao de Himſel, *M. D.* Riga Livono, *ad* Gul. Watſon, *M. D. R. SS.*

Read May 11, 1758.

ORthoceratiti recti in loco quodam Kelwika dicto, prope Fahlunam in Dahlia, reperti. Inhærebant lapidi cineracei coloris calcareo, variæ magnitudinis orthoceratiti, quorum portiones hic delineatas deſcribo.

Vide TAB. XXIII.

Fig. A. Orthoceratitis portio, cujus pars inferior ſaxo adhuc adhæret; ex lapide calcareo conſtans lente in apicem decreſcens. Licet ex parvis ejus fragmentis judicari poſſit, cylindrum eſſe orthoceratitem, ea tamen ſi conjunguntur, verum formant conum, et mihi videtur ex craſſitie ſiphonis, orthoceratitem hunc conicum duos fere ſuperaviſſe pedes. Vidi orthoceratitem in alio lapide calcareo, quem etiam ibidem loci, Kelwikæ, reperi, longitudine duorum cum ſemiſſe pedum: ſed impoſſibile erat, integrum eum excutere, nimis enim fragile erat. Eſt portio hæc orthoceratitis teſta ſua ambiente veſtita in *a b c*. Quinque conſpiciuntur articuli, thalami quondam, arctiſſime ſibi invicem inſidentes, per quos a latere procedit ſipho *m n* ſat craſſus, qui in omnibus fere, quas poſſideo portionibus orthoceratitarum,

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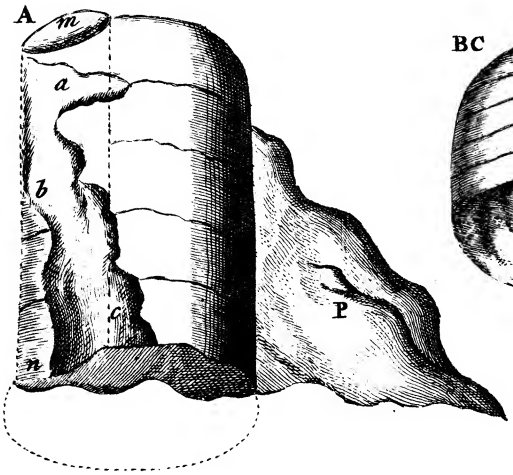

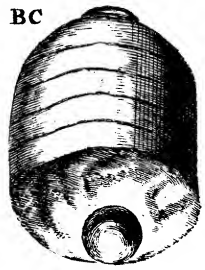

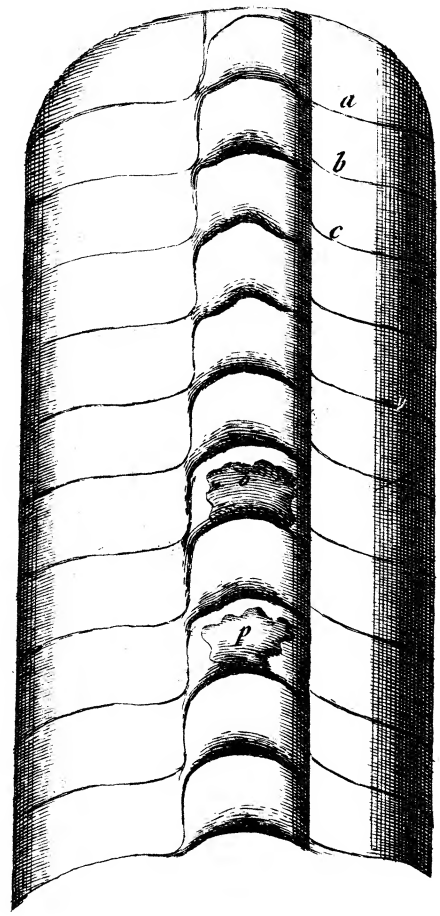

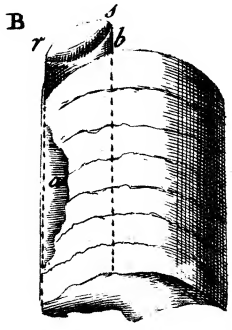

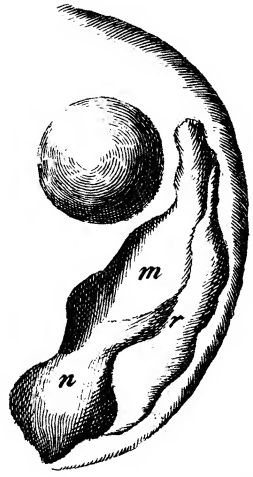

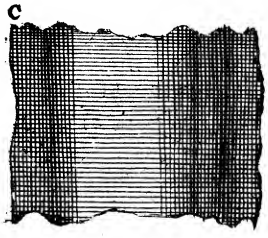

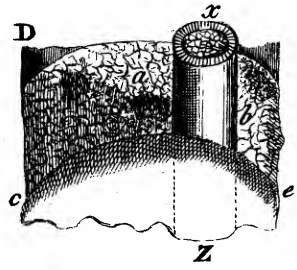

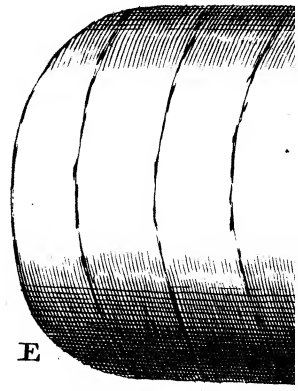

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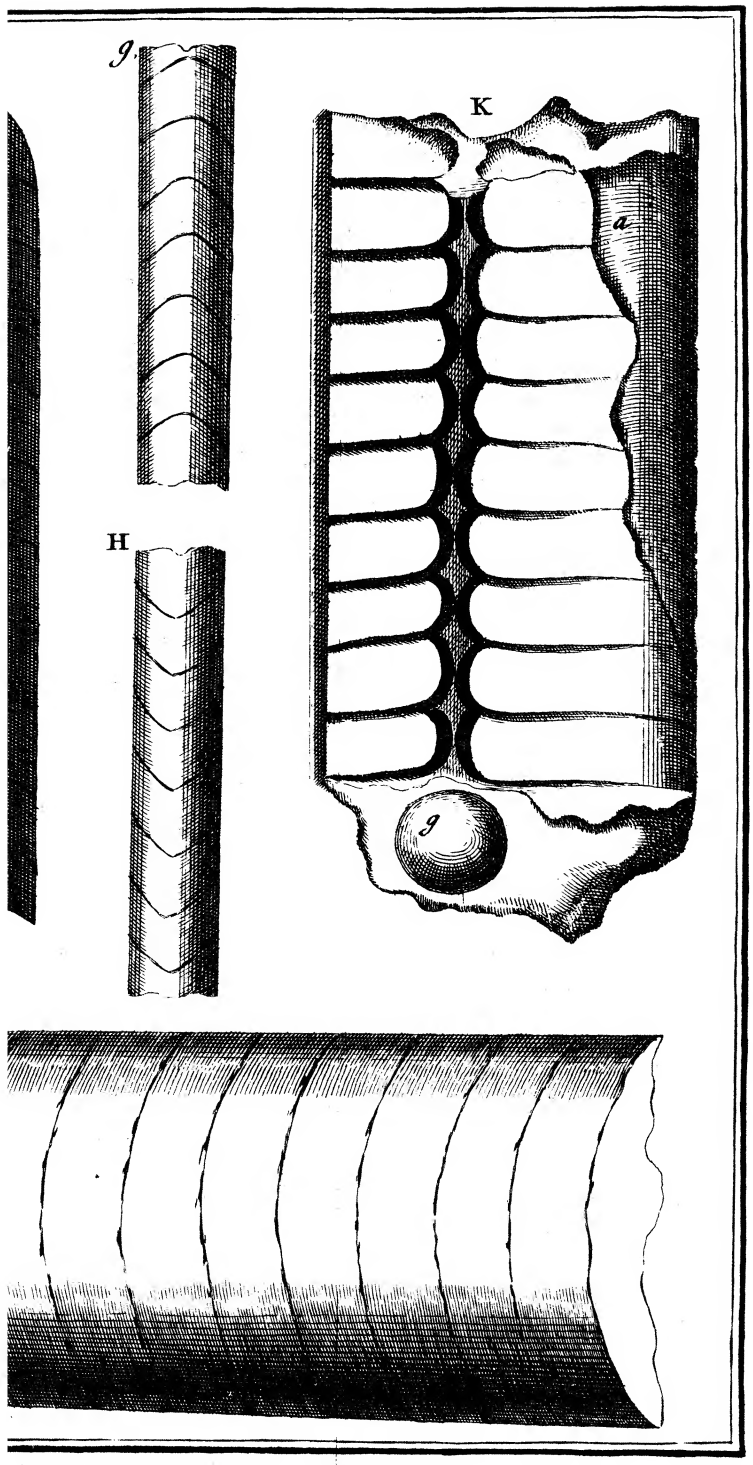
I
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a
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rum, a centro ſemper remotus, hic ad peripheriam poſitus conſpicitur. Sipho admodum lente decreſcit, ex quo etiam de longitudine coni hujus judicare licet. Cruſtæ vel teſtæ *a b c* interior pars, quæ articulos tegit, cryſtallina eſt, ex ſpati cryſtallis tenuioribus irregularibus conſtans.

Fig. B. Portio alia, in qua articuli minus craſſi; ſipho quoque ad peripheriam poſitus, teſta ſua in *a* tecta. Conſpicitur ſeptum illud teſtaceum in *b*, communi tenuior, quod ab ipſo articulo ſuperiori procedens, ſiphonis partem *r s* inveſtit.

Fig. B, C. Portio orthoceratitis ex lapide calcareo cineracei coloris: ſipho vero, fluore ſpatoſo egregie cryſtalliſato, conſtat.

Fig. C. Portio alia per axin diviſa, cujus pars exterior, teſta quæ ſtriis circularibus levioribus externe ornata, inveſtita conſpicitur.

Ex parte interiori *Fig. D.* confirmatio ejus interna adparet. Sipho *x x* gracilior, inter centrum et peripheriam poſitus, dimidia parte ambiente articulo denudatus adparet; dimidia altera, inferiori articulo *c d e* tegitur. Articulus *a b* ſpato cryſtalliſato pellucido polygono repletus eſt. Articulus *c d e* vero, ſaxo ſpatoſo incarnato paululum repletus eſt. *x.* Siphonis pars ſuperior, ubi radii a peripheria ad centrum tendentes conſpiciuntur. Inter cryſtallos ſpatoſos in articulo *a b* ſtriæ hinc et inde adparent nigræ, aſphalto repletæ; ita etiam cavitas articuli *a b*, æque ac ſuperficies convexa articuli *c e*, quæ in primam concavam recipitur, lamina aſphalti veſtitæ ſunt.

Fig. E. Pars alia orthoceratitis majoris, et quidem facies exterior.

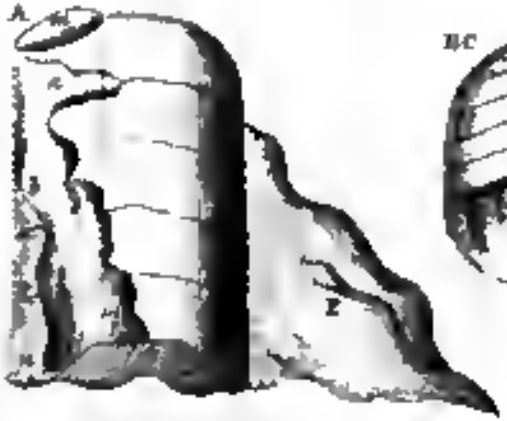
Fig. F. Facies ejus interior, in medio diviſi, cum ſiphone tranſeunte ſatis craſſo. *a b c* et reliquæ ſtriæ leves, ſunt diaphragmata, articulos *a b* invicem ſeparantia, ſiphonem proprie conſtituentia, ſiphoniſque tenuiorem membranam, quæ in *o* et *p* adhuc conſpicitur, ambientia. Sunt diaphragmata hæc craſſiora in ſiphonis veſtigiis, et ſibi invicem ab inferiori parte inſident. Sipho hic inter centrum et peripheriam poſitus eſt.

Fig. G. Materies calcarea, quæ ſiphonem replevit ſtriata, et quidem pars ejus interior, qua centrum orthoceratitis reſpicit, peripheriæ oppoſita.

Fig. H. Facies poſterior, peripheriæ propior.

Fig. I. Pars concava articuli majoris orthoceratitis, in qua diaphragmatis teſtacei jam cryſtalliſati portiunculæ albicantes *m n r* conſpiciuntur cum ſiphone tranſeunte.

Fig. K. Portio alia orthoceratitis majoris, ejuſque facies exterior, cum ſiphone *g* ad peripheriam poſito. Conſpiciuntur hic diaphragmata, quæ ab utroque latere, ab articulis procedunt, ſe invicem conjungunt, et ſiphonem ab exteriori parte obtegunt. *a* eſt teſtæ ſatis craſſæ portiuncula, qua portio hæc orthoceratitis veſtita adhuc eſt.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a
b
c
d
e

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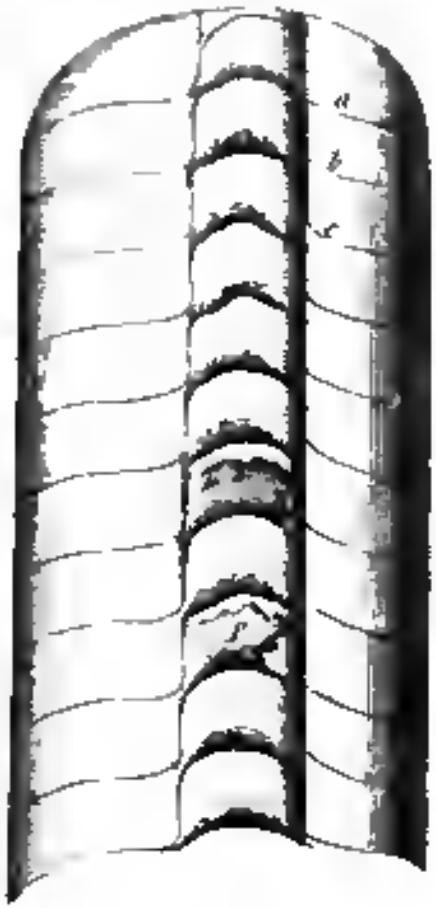
c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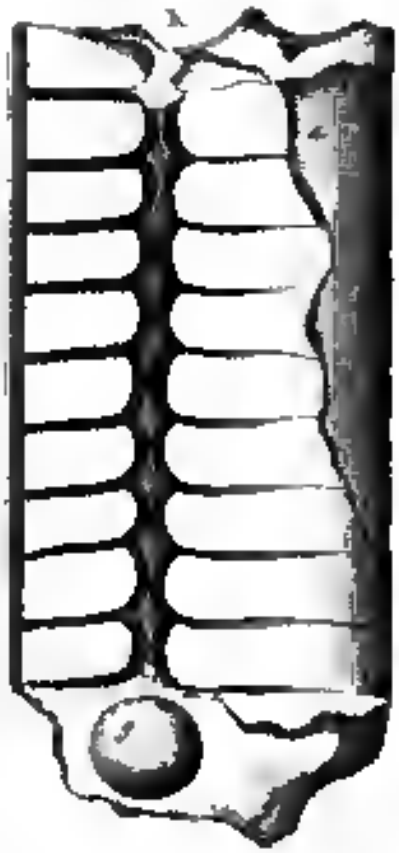
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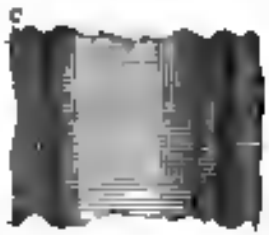
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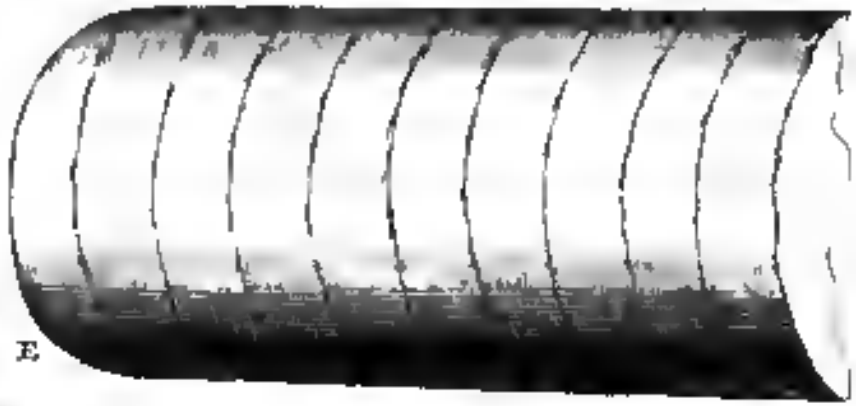
E